CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-09-13** **Date: 11-04-18**
Customer	:	Assistant Executive Engineer,Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample ID No	:	2018-04-09-13/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	400	400	4.0	96.0	95-100
22.4	3500	3900	39.0	61.0	60-80
11.2	1800	5700	57.0	43.0	40-60
4.75	1300	7000	70.0	30.0	25-40
2.36	300	7300	73.0	27.0	15-30
0.6	1300	8600	86.0	14.0	8-22
0.075	900	9500	95.0	5.0	0-5

Note:-

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-09-13** **Date: 11-04-18**
Customer	:	Assistant Executive Engineer,Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample ID No	:	2018-04-09-13/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	0	0	0.0	100.0	95-100
22.4	4000	4000	40.0	60.0	60-80
11.2	400	4400	44.0	56.0	40-60
4.75	2400	6800	68.0	32.0	25-40
2.36	200	7000	70.0	30.0	15-30
0.6	1900	8900	89.0	11.0	8-22
0.075	1100	10000	100.0	0.0	0-5

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-09-13** **Date: 11-04-18**
Customer	:	Assistant Executive Engineer,Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample ID No	:	2018-04-09-13/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	500	500	5.0	95.0	95-100
22.4	2800	3300	33.0	67.0	60-80
11.2	1400	4700	47.0	53.0	40-60
4.75	2200	6900	69.0	31.0	25-40
2.36	1100	8000	80.0	20.0	15-30
0.6	1200	9200	92.0	8.0	8-22
0.075	300	9500	95.0	5.0	0-5

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
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Authorized Signatory
Quality Manager

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-09-13** **Date: 11-04-18**
Customer	:	Assistant Executive Engineer,Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample ID No	:	2018-04-09-13/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-04-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.0	81.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	232.6	223.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.1
5	Aggregate impact value	(B/A)*100	23.6	26.6
6	Aggregate impact value (Mean of two tests)	Pecentage	25.1	

Note:-

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Quality Manager

CIVIL PRO Sig. Date BANGALORE

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-09-13** **Date: 11-04-18**
Customer	:	Assistant Executive Engineer,Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample ID No	:	2018-04-09-13/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	16.0	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.3	
Combined Flakiness and Elongation Index for WMM	26.3	

Note:-
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FOR CIVIL Pro.

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO Sig..... Date..... BANGALORE

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-04-12-06** **Date: 14-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore

Address : Vidyaranyapura Sub Division, Bangalore

Project Name : Pacakage No. 04 (Package consists of 28 works)

Agency : M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013

Customer Reference : BBMP/EE/BTP/WO/129/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-18

Sample ID No : 2018-04-12-06/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 12-04-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2000	2100	21.0	79.0	60-80
11.2	3200	5300	53.0	47.0	40-60
4.75	1800	7100	71.0	29.0	25-40
2.36	800	7900	79.0	21.0	15-30
0.6	500	8400	84.0	16.0	8-22
0.075	1100	9500	95.0	5.0	0-5

Note:-

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
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CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-04-12-06** **Date: 14-04-18**
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address : Vidyaranyapura Sub Division, Bangalore
Project Name : Pacakage No. 04 (Package consists of 28 works)
Agency : M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference : BBMP/EE/BTP/WO/129/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-04-18
Sample ID No : 2018-04-12-06/02
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 12-04-18
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	400	400	4.0	96.0	95-100
22.4	3100	3500	35.0	65.0	60-80
11.2	1900	5400	54.0	46.0	40-60
4.75	1000	6400	64.0	36.0	25-40
2.36	1600	8000	80.0	20.0	15-30
0.6	700	8700	87.0	13.0	8-22
0.075	1300	10000	100.0	0.0	0-5

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CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-12-06** **Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-18
Sample ID No	:	2018-04-12-06/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	12-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2800	2900	29.0	71.0	60-80
11.2	1800	4700	47.0	53.0	40-60
4.75	1600	6300	63.0	37.0	25-40
2.36	1500	7800	78.0	22.0	15-30
0.6	500	8300	83.0	17.0	8-22
0.075	1300	9600	96.0	4.0	0-5

Note:-

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CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-12-06** **Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-18
Sample ID No	:	2018-04-12-06/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	12-04-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.0	308.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	63.0	69.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	244.7	238.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	20.5	22.4
6	Aggregate impact value (Mean of two tests)	Pecentage	21.4	

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CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-12-06** **Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-18
Sample ID No	:	2018-04-12-06/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	12-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.2	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.8	
Combined Flakiness and Elongation Index for WMM	24.9	

Note:-
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-16-11** **Date: 18-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-11/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	0	0	0.0	100.0	95-100
22.4	2000	2000	20.0	80.0	60-80
11.2	3300	5300	53.0	47.0	40-60
4.75	700	6000	60.0	40.0	25-40
2.36	1100	7100	71.0	29.0	15-30
0.6	900	8000	80.0	20.0	8-22
0.075	1700	9700	97.0	3.0	0-5

Note:-

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CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-04-16-11** **Date: 18-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore

Address : Vidyaranyapura Sub Division, Bangalore

Project Name : Pacakage No. 04 (Package consists of 28 works)

Agency : M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013

Customer Reference : BBMP/EE/BTP/WO/129/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2018-04-16-11/02

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 16-04-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	0	0	0.0	100.0	95-100
22.4	4000	4000	40.0	60.0	60-80
11.2	2000	6000	60.0	40.0	40-60
4.75	100	6100	61.0	39.0	25-40
2.36	1300	7400	74.0	26.0	15-30
0.6	700	8100	81.0	19.0	8-22
0.075	1400	9500	95.0	5.0	0-5

Note:-

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All information furnished by Customer/Representative

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FOR CIVIL Pro.

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Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

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End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-16-11** **Date: 18-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-11/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	200	200	2.0	98.0	95-100
22.4	1900	2100	21.0	79.0	60-80
11.2	2000	4100	41.0	59.0	40-60
4.75	3000	7100	71.0	29.0	25-40
2.36	100	7200	72.0	28.0	15-30
0.6	700	7900	79.0	21.0	8-22
0.075	2100	10000	100.0	0.0	0-5

Note:-

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BBMP, Bangalore - 97

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-16-11** **Date: 18-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-04-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	307.0	307.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	84.0	68.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	222.8	238.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.2	0.5
5	Aggregate impact value	(B/A)*100	27.4	22.1
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

Note:-

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Assistant Executive Engineer
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-16-11** **Date: 18-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-18
Sample ID No	:	2018-04-16-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	18.1	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	9.0	
Combined Flakiness and Elongation Index for WMM	27.1	

Note:-
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-19-08** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-08/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	19-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	2900	3200	32.0	68.0	60-80
11.2	2600	5800	58.0	42.0	40-60
4.75	800	6600	66.0	34.0	25-40
2.36	1000	7600	76.0	24.0	15-30
0.6	1000	8600	86.0	14.0	8-22
0.075	1400	10000	100.0	0.0	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-19-08** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-08/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	19-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	2300	2600	26.0	74.0	60-80
11.2	1900	4500	45.0	55.0	40-60
4.75	3000	7500	75.0	25.0	25-40
2.36	700	8200	82.0	18.0	15-30
0.6	400	8600	86.0	14.0	8-22
0.075	1100	9700	97.0	3.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-19-08** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-08/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	19-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	3400	3700	37.0	63.0	60-80
11.2	2300	6000	60.0	40.0	40-60
4.75	1300	7300	73.0	27.0	25-40
2.36	600	7900	79.0	21.0	15-30
0.6	1800	9700	97.0	3.0	8-22
0.075	600	10300	103.0	-3.0	0-5

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Authorized Signatory
Quality Manager

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-19-08** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-08/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	19-04-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.0	302.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	81.0	71.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	220.9	230.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.1	0.4
5	Aggregate impact value	(B/A)*100	26.8	23.5
6	Aggregate impact value (Mean of two tests)	Pecentage	25.2	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-19-08** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-08/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	19-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.4	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	16.0	
Combined Flakiness and Elongation Index for WMM	25.4	

Note:-

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CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-23-03** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-18
Sample ID No	:	2018-04-23-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	23-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2400	2500	25.0	75.0	60-80
11.2	1500	4000	40.0	60.0	40-60
4.75	2800	6800	68.0	32.0	25-40
2.36	900	7700	77.0	23.0	15-30
0.6	1000	8700	87.0	13.0	8-22
0.075	1200	9900	99.0	1.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-23-03** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-18
Sample ID No	:	2018-04-23-03/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	23-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	500	500	5.0	95.0	95-100
22.4	3300	3800	38.0	62.0	60-80
11.2	1100	4900	49.0	51.0	40-60
4.75	1600	6500	65.0	35.0	25-40
2.36	900	7400	74.0	26.0	15-30
0.6	900	8300	83.0	17.0	8-22
0.075	1500	9800	98.0	2.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-23-03** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-18
Sample ID No	:	2018-04-23-03/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	23-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	2400	2700	27.0	73.0	60-80
11.2	1800	4500	45.0	55.0	40-60
4.75	2400	6900	69.0	31.0	25-40
2.36	500	7400	74.0	26.0	15-30
0.6	1000	8400	84.0	16.0	8-22
0.075	1500	9900	99.0	1.0	0-5

Note:-

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-23-03**	**Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-04-18	
Sample ID No	:	2018-04-23-03/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	23-04-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.0	311.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	64.0	71.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	246.9	239.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.1	0.4
5	Aggregate impact value	(B/A)*100	20.6	22.8
6	Aggregate impact value (Mean of two tests)	Pecentage	21.7	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-23-03** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-18
Sample ID No	:	2018-04-23-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	23-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	15.0	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	18.8	
Combined Flakiness and Elongation Index for WMM	33.8	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Quality Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Divisio
BBMP, Bangalore - 97

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-26-03** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-04-26-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	26-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2700	2800	28.0	72.0	60-80
11.2	1400	4200	42.0	58.0	40-60
4.75	1800	6000	60.0	40.0	25-40
2.36	1200	7200	72.0	28.0	15-30
0.6	1700	8900	89.0	11.0	8-22
0.075	900	9800	98.0	2.0	0-5

Note:-

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All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-26-03** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-04-26-03/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	26-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	3300	3400	34.0	66.0	60-80
11.2	1300	4700	47.0	53.0	40-60
4.75	2300	7000	70.0	30.0	25-40
2.36	700	7700	77.0	23.0	15-30
0.6	400	8100	81.0	19.0	8-22
0.075	1800	9900	99.0	1.0	0-5

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Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-26-03** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-04-26-03/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	26-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	200	200	2.0	98.0	95-100
22.4	3200	3400	34.0	66.0	60-80
11.2	1200	4600	46.0	54.0	40-60
4.75	1400	6000	60.0	40.0	25-40
2.36	1400	7400	74.0	26.0	15-30
0.6	1200	8600	86.0	14.0	8-22
0.075	1300	9900	99.0	1.0	0-5

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Quality Manager

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-26-03** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-04-26-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-04-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.0	304.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.0	80.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	234.9	223.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.1	0.4
5	Aggregate impact value	(B/A)*100	22.7	26.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.5	

Note:-

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-26-03** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-04-26-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-04-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	15.3	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.3	
Combined Flakiness and Elongation Index for WMM	26.7	

Note:-
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-29-01** **Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-18
Sample ID No	:	2018-03-29-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	29-03-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	232	232	2.3	97.7	95-100
22.4	2133	2365	23.7	76.4	60-80
11.2	2365	4730	47.3	52.7	40-60
4.75	1321	6051	60.5	39.5	25-40
2.36	1886	7937	79.4	20.6	15-30
0.6	255	8192	81.9	18.1	8-22
0.075	1399	9591	95.9	4.1	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-29-01** **Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-18
Sample ID No	:	2018-03-29-01/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	29-03-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	500	500	5.0	95.0	95-100
22.4	2800	3300	33.0	67.0	60-80
11.2	1100	4400	44.0	56.0	40-60
4.75	3000	7400	74.0	26.0	25-40
2.36	200	7600	76.0	24.0	15-30
0.6	700	8300	83.0	17.0	8-22
0.075	1200	9500	95.0	5.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-29-01**	**Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Package No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-03-18	
Sample ID No	:	2018-03-29-01/03	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	29-03-18	
Oven Dry Weight	:	10000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	3900	4000	40.0	60.0	60-80
11.2	1900	5900	59.0	41.0	40-60
4.75	1300	7200	72.0	28.0	25-40
2.36	800	8000	80.0	20.0	15-30
0.6	900	8900	89.0	11.0	8-22
0.075	600	9500	95.0	5.0	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-29-01**	**Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-03-18	
Sample ID No	:	2018-03-29-01/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	29-03-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	309.0	309.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.0	76.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.7	232.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	22.0	24.6
6	Aggregate impact value (Mean of two tests)	Pecentage	23.3	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-29-01** **Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-18
Sample ID No	:	2018-03-29-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	29-03-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.2	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.3	
Combined Flakiness and Elongation Index for WMM	24.6	

Note:-
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